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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 17645.102-2008

**Industrial automation systems and integration -- Parts library --
Part 102: View exchange protocol by ISO 10303 conforming
specification**

(English Translation)

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Foreword

GB/T 17645 "Industrial automation systems and integration Parts library" is a multi-part standard, each part published separately.

Each part of GB/T 17645 belongs, according to the functions are divided into a plurality of sub-series. Concept description logic resources to achieve resource description methods consistency Test, view exchange protocol concerning standardization dictionary content, including.

--- The first part defines the concept of 10 to 19 is described;

Part --- 20 to 29 provides logical resources;

--- 30 to 39 section provides resource;

Part --- 40 to 49 defines the method described;

Part --- 50 to 59 specifies conformance testing;

--- Part 100 to 199 specifies the view exchange protocol;

--- The first 500 to 599 provided specific dictionary of standardized content.

GB/T 17645 "Industrial automation systems and integration Parts Library" has now published the following nine sections.

--- Part 1. Overview and fundamental principles;

--- Part 20. Logical resource. Logical model of expressions;

--- Part 24. Logical resource. Logical model of supplier library;

--- Part 25. Logical resource. with aggregate values and explicit content provider database logical model;

--- Part 26. Logical resource. Information supplier identification;

--- Part 31. resource. Geometric programming interface;

--- Part 42. Description methods. part family construction methodology;

--- Part 101. Geometrical view exchange protocol parameters of the program;

--- Part 102. meet GB/T 16656 regulations consistent view exchange protocol.

This section is GB/T Part of 10,217,645. This part identical with ISO 13584-102:2006 "Industrial automation systems and Section 102 Integrated Library. compliance with ISO 10303 conformance specification view exchange protocol "in the preparation of the technical content and format of the and ISO 13584-102:2006 is consistent, but the preparation according to the requirements of national standards, made some editorial changes, mainly.

--- For each entity name for EXPRESS blackbody English language to describe underlined, in order to maintain both its intent and easy English Learn the name of the representative of the meaning, in this section, mainly in English. Increase the informative appendix NA, collecting entity blackbody English Name and gives Chinese translation.

--- ISO 13584, ISO 10303 and IEC 61360 standards for each part are already a number of identical or equivalent into our national Standard, the corresponding numbers are national standards GB/T 17645, GB/T 16656 and GB/T 17564 in various parts. two those in technology and the use of peer to peer. However, taking into account the ISO 13584, ISO 10303 and IEC 61360 matching EX-PRESS description, as well as the expression of patterns, entities, attributes, properties, functions, and other application software, application software in order to support Problems due to the replacement of international standards and bring the name does not occur when the practical application of all

EXPRESS In this section Description and automatically generated by STEP development tools, documentation and EXPRESS-G diagram international standard code remains unchanged, Only in the title of this section and discuss the text, replace the original with a number of international standards National standard.

This section of Appendix A normative annex, appendix NA informative appendices.

This part is proposed by China Machinery Industry Federation.

This part of the National Industrial automation systems and integration Standardization Technical Committee (SAC/TC159) centralized.

This section drafted by. China National Institute of Standardization.

1 Scope

GB/T 17645 provisions of this part of the ISO 10303_rep this expression category. The expression category can be used to record general concept Product Presentation Description GB/T 16656 application protocol. Expression of any of the categories associated with the library can be defined. This section also defines . The expression of the exchange in the library environment, belong to the category of how to use the expression in line with GB/T 16656 data warehouse to be exchanged.

This section applies to.

- ISO 10303_rep expression defined categories, and reference mechanism;
- Description ISO 10303_rep expression characteristics of a specific category of expression;
- Comply with any implementation of this part of the supported resource;
- Comply with any implementation of this part of the dictionary entries supported;
- Any implementation of standards-compliant data in this section are identified.

This section does not apply to.

- Structure library to transfer files and interchange format;
- In line with GB/T 16656 application protocol library files and external structures and exchange formats.

Note 1: The library integrated information model GB/T 17645 logical resource specified in section defines the structure of the library to transfer files.

NOTE 2: ISO 13584_f_m_im_schema GB/T 17645.24 definition of the library integrated information model, which defines the structure of the database file transfer. This kind Transfer Library file also contains a number of examples of values, the values \u200b\u200b of these examples cited in this part of the definition of the expression category and (or) an external library file.

Appendix A provides information Document identification, formed a complete identification of this section.

2 Normative references

The following documents contain provisions which, through reference GB/T 17645 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 16262.1 Information technology - Abstract Syntax Notation One (ASN.1) - Part 1. Specification of basic notation (GB/T 16262.1-2006, ISO/IEC 8824-1:2002, IDT)
Representation and exchange GB/T 16656.11 Industrial automation systems and integration - Product data - Part 11. Description methods. EX-PRESS Language Reference Manual GB/T 16656.21 representation and exchange of industrial automation systems and integration - Product data - Part 21. Implementation methods. exchange Clear text encoding of the file structure (GB/T 16656.21-2008, ISO 10303-21:1994, IDT) GB/T 16656.41 Industrial automation systems and integration - Product data representation and exchange Part 41. Integrated generic resources. Product Description and support (GB/T 16656.41-1999, idt ISO 10303-41:1994) GB/T 16656.43 Industrial automation systems and integration - Product data representation and exchange - Part 43. Integrated generic resource. Table of structure (GB/T 16656.43-2008, ISO 10303-43:2000, IDT) Part 24 GB/T 17645.24 Industrial automation systems and integration Parts library. Logical resource. Logical model of supplier library (GB/T 17645.24-2003, ISO 13584-24:2002, IDT) GB/T 17645.102-2008/ISO 13584-102:2006